

L-fucose isomerase

Cat. No. EXWM-5464

Lot. No. (See product label)

Introduction

Description

Requires a divalent metal ion (the enzyme from the bacterium *Escherichia coli* prefers Mn^{2+}). The enzyme binds the closed form of the sugar and catalyses ring opening to generate a form of open-chain conformation that facilitates the isomerization reaction, which proceeds via an ene-diol mechanism. The enzyme from *Escherichia coli* can also convert D-arabinose to D-ribulose. The enzyme from the thermophilic bacterium *Caldicellulosiruptor saccharolyticus* also converts D-altrose to D-psicose and L-galactose to L-tagatose.

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 5.3.1.25

CAS No.

60063-83-4

Reaction

L-fucopyranose = L-fuculose

Notes

This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.